

AOC 5.4 Scoping Meeting #2 - NON-DESTRUCTIVE EVALUATION PROCESS

Agenda - July 28, 2020

Goal: Establish the level of protection acceptable to the regulators for the NDE process.

Today's Objective: Decide on the Acceptance Criteria for Tank Inspections.

a. How do the regulators want the TIRM procedures to have a validation of performance?

1 - Do we do this using by prescriptive objectives?

- The NDE must meet Pitting +/- 20 mils, thinning +/- 5%.
- NDE (entire industry) cannot find small volume losses.
- LFET detects loss of volume, operator checks with straight-beam UT.
- Attempts to quantify an unknown volume.
- With prescriptive requirements, Factor of Safety is infeasible – piling error on top of error.

2 - Do we this this using performance objectives?

- Auditability.
- Validation coupons as an integral part of NDE.
- Data Flags – improvements to Software.
- Testing of Operators using actual corroded plates.
- Acceptance Sampling Plan.
- Refinements to the procedures to address the findings of the DT.
- With performance objectives, we can add a Factor of Safety for the variabilities.

FUTURE DISCUSSIONS

1. Introduction meeting – Smaller groups, Action committees
2. Corrosion Rates of the Steel Liner
3. Risks to the Environment
4. Concrete and Reinforcing Steel Condition
5. Scale of Defects and Damage Mechanisms
6. Define Improvement - Increase reliability, repeatability
7. Document previously agreed upon decisions – Fatigue, Welds, Laminations